GW200A USER'S MANUAL

*** Important ***
Read User's Manual Completely Prior to Operating, Towing, or Servicing Wagon

Par-Kan Company
2915 West 900 South
Silver Lake, IN 46982

Phone: 1-800-291-5487
Phone: 260-352-2141
Fax: 260-352-0701

Contact: Sales Department
E-mail: GWSales@par-kan.com
Website: www.par-kan.com

GW200A

CUSTOMER: _____

SERIAL # _____

V.I.N. _____

WEIGH TRONIX SERIAL # _____

Grain-Weigh 200A Manual Table of Contents

Page 2 ..... Product Information

Page 3..…….. Table of Contents

Page 4..…… ..... Warranty

Page 5 ..... Approximate Cart Dimensions

Page 6 ..... General Specifications & Features

Page 7 ..... Safety Precautions

Page 8 ..... Operation Precautions

Page 9 ..... Maintenance & Storage

Page 10 ..... Operation of Maintenance Meter

Page 11-13 ..... Trouble Shooting

Page 14 ..... Weigh Bar Replacement

Page 15-23 ..... Replacement Parts Listing

Page 24-27 ..... Electrical Schematic

Page 28-30 ..... Hydraulic System

Appendices

Page 31 ..... Towing Safety

Page 32-33 ..... Shurco Replacement Parts

Page 34 ..... Weigh Tronix™ Calibration Procedure

Page 35-38 ..... Weigh Tronix™ Adding LED Light Procedure

Page 39 ..... Contact Infomation

User Manual's

-Briggs & Stratton® Operator/Owner Manual

-Shurco Owner's Manual

-Weigh Tronix™ Model 640 User's Manual

-Wallace Forge

Par-Kan Company - Grain Weigh Division
Model GW-200A One Year Warranty

Par-Kan Company's Grain-Weigh Equipment is warranted to the original purchaser to be free from defects in material and workmanship for a period of one year from the date of purchase as dated on Grain-Weigh's original invoice.

Grain-Weigh will replace during the warranty period, subject to an examination by an authorized representative of Grain-Weigh, any warranted part which proves defective in material and/or workmanship under normal installation, use, and service. Parts must be returned, and transportation charges prepaid to our factory. Any changes to the Grain Weigh equipment as a result of modifications, misuse, abuse, neglect, accident, vandalism, fire, flood, other acts of God, or improper installation will void this warranty.

If Grain-Weigh receives notice of such defects during the warranty period, Grain-Weigh will either, at its option, repair or replace products which prove to be defective. Other manufacturer's warranties may apply for parts purchased by Grain-Weigh. Grain-Weigh makes no other warranty, either expressed or implied, with respect to this product. Any special, incidental, or consequential damages arising from any breach of warranty are specifically excluded hereunder.

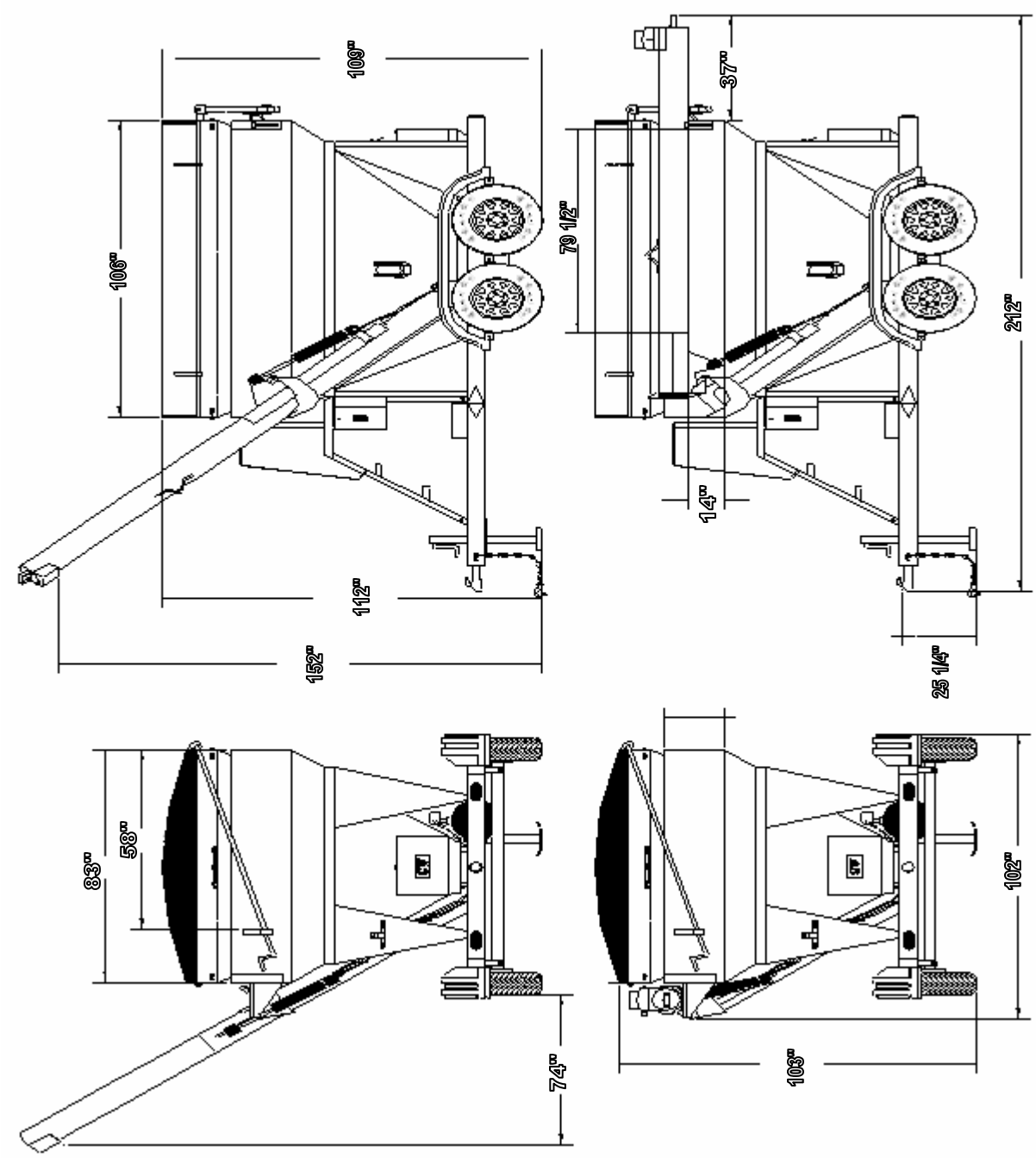
Manufacturer's Warranties:

Axis Axles, 1 Year Warranty

Weigh Tronix™ Scale System, 3 Year Warranty

Briggs & Stratton® 18 H.P. Vanguard Engine, 2 Year Warranty

Grain-Weigh 200A Dimensions



Grain-Weigh 200A General Specifications & Features

1. Weigh Tronix™ Model 640 Farm Indicator – 2 lb. increment.
2. Briggs & Stratton®, 18 HP Vanguard Engine With Electric Start (Pull start backup system.)
3. 14,000 lb. Axis Tandem axle.
4. ST235//80 R16, 8-Bolt Tires
5. Capacity: 200 Bushels.
6. Hydraulically Driven
7. 2-5/16” Ball Coupler – rated at 14,000 lbs.
8. Standard Cart Has an Approximate Empty Weight of 3,340 lbs. without options.
9. Tongue Jack with Swivel Wheel
10. Vehicle Hitch **MUST** be Rated at 14,000 lbs.
11. 6-1/2 Gallon Plastic Gasoline Tank With Vent Cap.
12. 1/8” Steel or Poly Cup Auger Flighting
13. 14,000 lb Towing Capacity Maximum

Grain Weigh 200A Safety Precautions

1. Observe all safety precautions listed in this manual
2. No Riders
3. Stand Clear of all moving parts while in operation.
4. Make no adjustments while cart is running.
5. Cart can be loaded without being attached but should be level while loading.
6. Do not touch or allow unit to come in contact with overhead electrical wires.
7. Gasoline tank should not be filled while engine is running or hot.
8. Auger “run switch” must be in “off” position while raising or lowering auger.
9. Consult the Briggs & Stratton engine manual for operating instructions.
10. Do not operate Briggs & Stratton® Engine over 3,000 RPM.
11. Do not transport with auger in raised position.
12. Proper height to top of 2-5/16” ball hitch on towing vehicle should not exceed recommended allowance.
13. Do not load in excess of tire manufacturer ratings for either the GW-200A cart or the towing vehicle.
14. Towing vehicle should be of adequate capacity.
15. The total cart weight should not exceed 14,000 lbs.
16. Wheel lug nuts must be tight
17. Never enter the bin at any time.
18. Be aware of all information, caution, warning, and danger signs on the unit.
19. Be aware of hot hydraulic fluid in case of a hydraulic line break.
20. Below 10 degrees F., change the hydraulic oil to SAE 5W30 motor oil.
21. The operation of this cart must comply with all federal and state laws.

Grain-Weigh 200A Operating Procedures

1. Check engine oil and fuel before starting engine.
2. Run engine and hydraulic system to pre-warm before loading system.
3. Refer to the Weigh Tronix Users Manual for details on the key functions for the Model 640 Farm Indicator.
4. Weigh Tronix system will shut down if turned on prior to starting engine.
5. Receive grain.
6. Record weight data for yield comparison if desired.
7. Move auger to “up” position for unloading grain.
8. Turn on auger.
9. Increase engine rpm to 3,000 rpm.
10. Open inside unloading door.
11. Transfer grain to receiving vehicle and record weight data for yield comparison if desired for seed tendering.
12. Decrease engine rpm to idle throttle.
13. Turn off auger, and close unloading door.
14. Move auger to “down” or “storage” position for transporting.
15. Await next load to receive, weigh, and transfer.
16. Bulk seed handling: Run Briggs and Stratton engine at 1,800 rpm with door half open and keep seed tube full of grain for minimal seed damage.
17. Always clean out bin and auger after using treated seed.

Grain-Weigh 200A Maintenance & Storage

Daily Check List:

-Check engine oil level (do not overfill)

-Fill gas tank for daily operation.

-Check for oil leaks.

-Check hydraulic oil level (SAE 10W30, do not overfill.)
- -Fill 80% full (9.5 gallons)
- -Total Capacity: 12 gallons

-Inspect for loose bolts.

-Inspect and check that lights are working properly.

-Inspect safety chains for deformed or damaged components.

-Grease top auger bearing.

-Tire pressure should be 80 psi cold.

-Check and inspect for loose wheel lug nuts.

Seasonal Check List:

Inspect and pack wheel bearings.

Clean battery terminals.

Grease top auger hinge plate pin every 50 hours of operation.

Check Weigh Tronix for proper operation. (See Weigh Tronix manual.)

Service Briggs & Stratton engine. (See Briggs & Stratton manual.)

Empty gas tank for seasonal storage.

Change hydraulic filter after first 50 hrs. Thereafter every 300 hrs of operation.

Maintenance meter flashes every 25 hours. Consult Briggs & Stratton Manual for service schedule.

Wash and wax to maintain powder coat finish.

Check all fasteners for tightness

Grain-Weigh 200A Operation of Maintenance Meter

Multi-Function Maintenance Meter: Hour Meter, Tachometer, and Service Alarm

Hour Meter / Tachometer: These functions are fully automatic. Upon engine start the meter will show rpm's. At engine shutdown the meter displays the total accumulated running time (which cannot be reset).

Service Alarms: This function is also fully automatic. It has a dual flash alert which displays "CHG OIL & LUBE" at 25 operation hour intervals. It begins flashing at 1 hour before the 25 hour increment, and finishes flashing at 1 hour after.

Note: Consult the Briggs & Stratton Engine Manual for the engine's proper maintenance schedule. Also, consult this manual for the proper GW200 cart system maintenance schedule.

Grain-Weigh 200A Trouble Shooting

Problem	Cause	Test	Correction
Engine will not start	No fuel Bad connections Dead Battery Starter	Visual Meter Meter Meter	Add fuel Clean or replace Charge or replace Repair or replace
Selective hydraulic components not working (Auger Screw, Unloading Door, or Auger Tube Display)	Hydraulic Oil Solenoid or Electrical Connections Hydraulic Components	Visual Check the meter connection or switch that is not working correctly.	Add oil Fix faulty electrical connection or switch Replace faulty hydraulic component(s)
Weigh Tronix will not power up	Blown fuse Bad connections Dead Battery Other	Meter Meter Meter	Replace Clean or replace Charge or replace See Weigh Tronix Manual
Incorrect weights	Weigh Bar Wiring	Meter	See Weigh Tronix Manual Repair or replace *see pg. 10A for more details.
Auger speed slow	Plugged oil filter Carrier bearing adjustment	Visual Visual or Heat	Replace Adjust
Hydraulic oil overheating	Engine over 3,000 RPM	None	Keep engine at 3,000 RPM
All Hydraulics will not operate	Blown Fuse Oil	Visual	Replace 10 amp fuse behind weigh head. Add Oil

Problem Cause

Incorrect Weights Continued Check System #1

-Make sure unit is level so the weighing system works correctly.
-Make sure that the decal is on “TOP” of the weighing bars for correct installation.
-Please check and reference Appendix X Quick Programming Guide in your Avery Weigh-Tronix manual and see if the Configuration Code Number (CCN) is properly entered for the scale application. If not known, please consult Par-Kan for assistance.
-If Configuration Code Number (CCN) is entered properly do a visual inspection of the scale system and check for:
    -Cable damage to weigh bar cables or junction box cable
    -Make sure the supporting structure and weighing structure do not touch at any other point except at the weigh bars.
-Next if the scale is still not weighing properly, check for faulty weigh bars as follows:
    -Position a person or heavy object on the scale system above each weigh bar, one weigh bar at a time, and compare the weight readings.
    -All the readings should be nearly identical to each other. One reading that is significantly different from the others is probably defective. Replace the defec tive weigh bar.
-Find the cell that is not in the approximate weight as the other two and that is the bad cell. If the cells are all approximately the same weight then a weigh head could be the issue. Please contact Par-Kan Company to continue on this issue.

Grain Weigh 200A Hydraulic Trouble Shooting

1. Hydraulics will not operate.

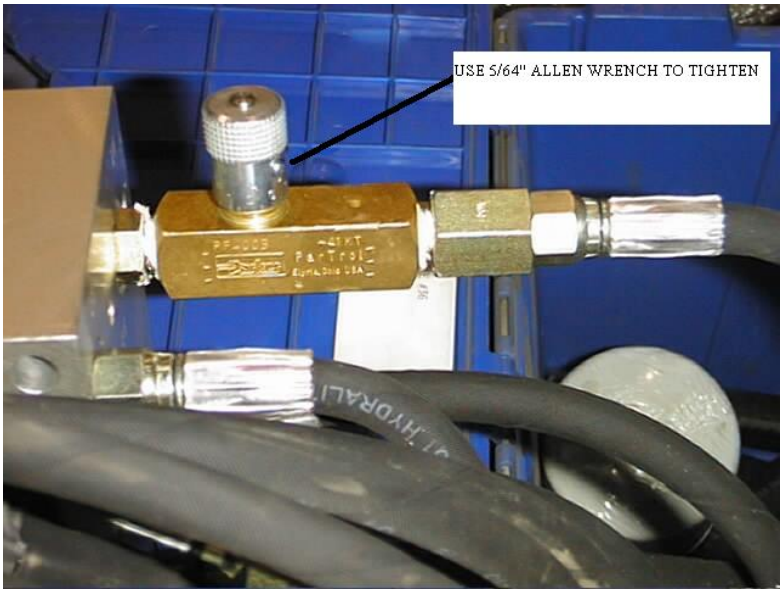
- Make sure the engine is running at full power and not on one cylinder. Make sure the vent on the gas cap is open for engine to receive fuel.
- Check for blown fuse behind the weigh head and or see the manual override procedure.
- Visually check to see that there is the correct amount of hydraulic oil.

1. If the auger will not raise or lower.

- Make sure the engine is running in the normal rpm range. (3,000 rpm)
- Adjust the flow control valve on the backside of the manifold.

1. If the auger is not raising or lowering smoothly.

- Make sure the engine is running in the normal rpm range. (3,000 rpm)
- Adjust the flow control valve on the backside of the manifold.



The pre set adjustment for this flow control valve has been set as follows: Twist knob clockwise until snug, then twist counterclockwise 2 full revolutions and tighten down with 5/64" Allen wrench.

Grain-Weigh 200A Weigh Bar Replacement

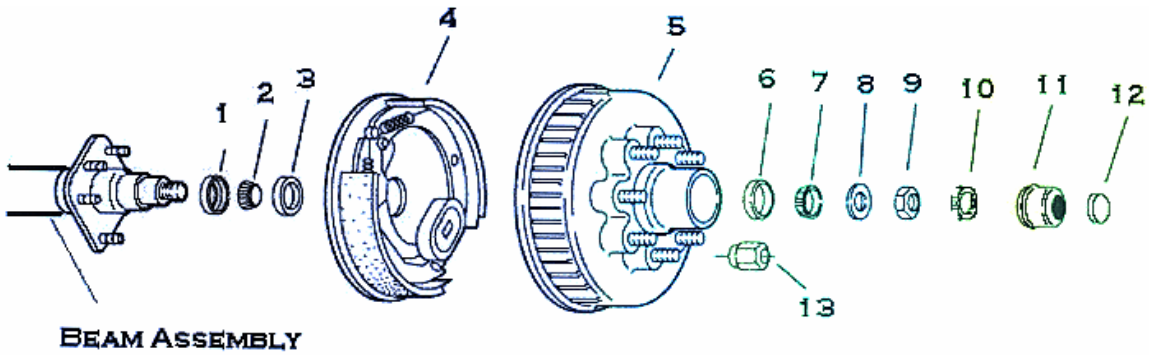
Remove old weigh bar
First locate which weigh bar needs to be replaced
Remove weigh bar wire from weigh head
Place floor jack under inner frame and release pressure off weigh bar.
Remove the 3/8" bolts on outer frame
Remove the 7/16" bolts on inner frame
Remove inner collar from inner frame
Push weigh bar toward center of cart

Install new weigh bar
Run wire through inner frame weigh bar hole
Put weigh bar into frame
Make sure marking on the top of weigh bar is on the top

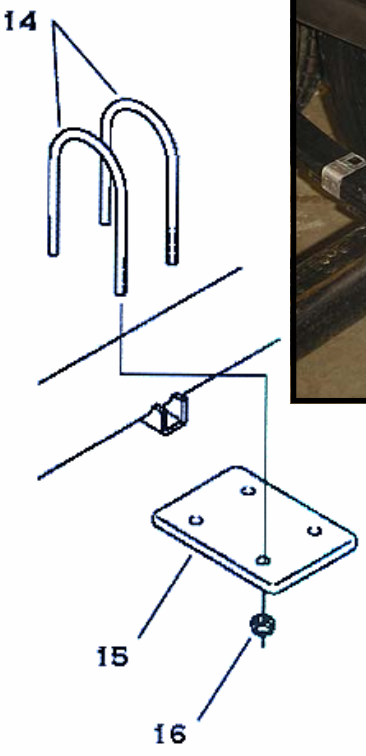
For Side Weigh Bars
Make sure to install both weigh bar spacers prior to installing weigh bar
Install small spacer first and then the larger spacer

After weigh bar is installed, the weigh system must be re-calibrated.

Grain-Weigh 200A Axle & Hub Assembly



7000 POUND Axle
Axis # SUPWH6642100

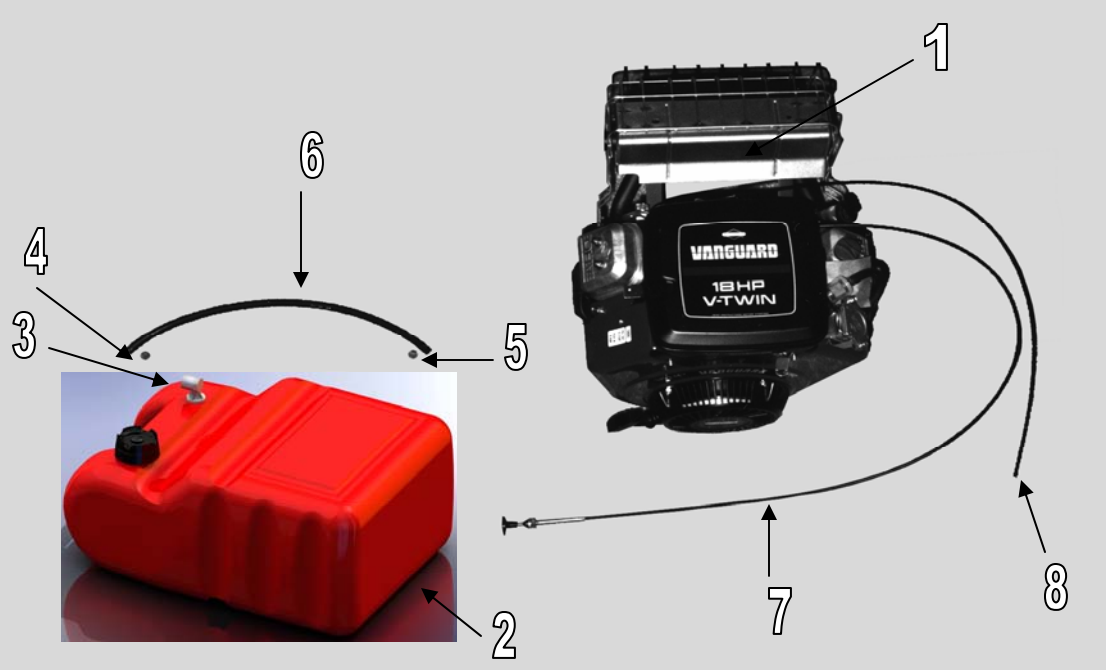


Grain-Weigh 200A Axle & Hub Parts Listing

Key #	Part Number	Description
1	241144	DL600 Seal
2	241145	Inner Bearing
3	241146	Inner Cone
4	241147	Left Hand Brake
4B	241148	Right Hand Brake
5	241149	Brake Drum
6	241150	Outer Cone
7	241151	Outer Bearing
8	241106	“D” Washer
9	241107	1-14 Slotted Jam Nut
10	241152	Tang Washer
11	241141	Dust Cap
12	241153	Rubber Plug for Dust Cap
13	241132	Cone Wheel Nut ½”
14	241154	U-Bolt – Zinc
15	241155	Tie Plate – Zinc
16	241156	½” Roll Lock Nut – Zinc
**	241157	Brake Mounting Bolts 3/8” x 1”
**	241158	Brake Mounting Lock Nuts 3/8”
**	241159	Brake Mounting Lock Washer 3/8”
**	241160	Brake Wiring Scotch-Lock Connectors
**	241161	Leaf Spring
**	241162	Beam Assembly (Axle Beam, Spindles, Spring Pads, Brake Flanges)

* Items not shown in diagram

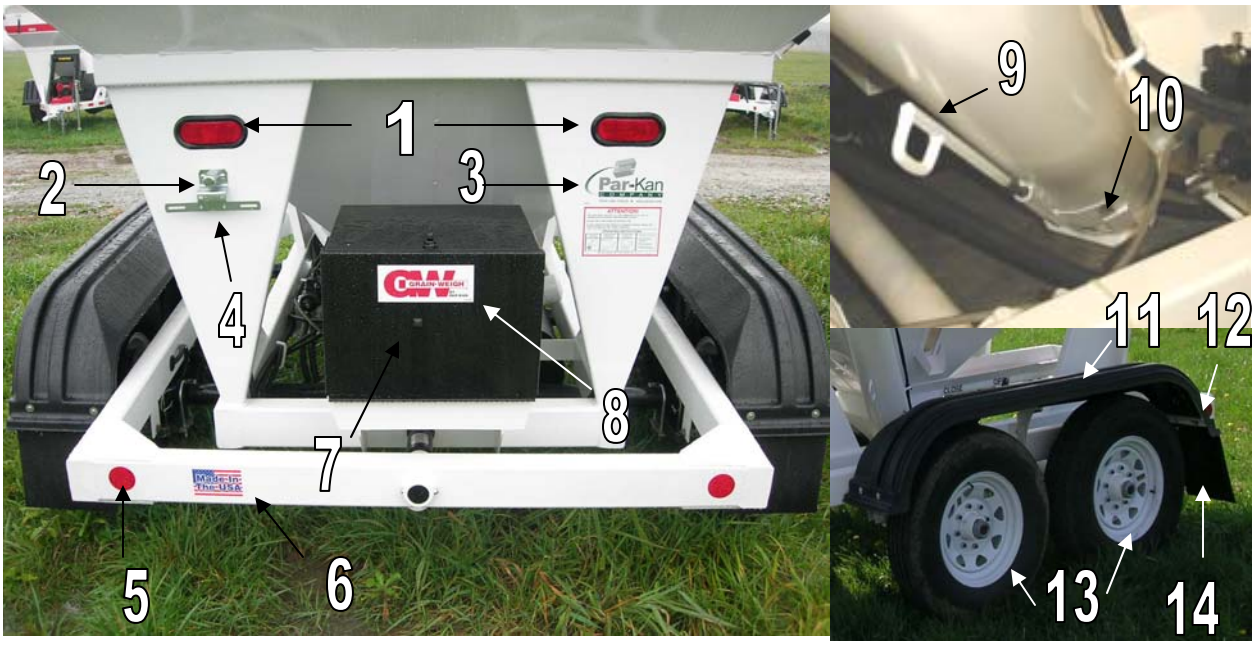
Grain-Weigh 200A Power Plant



Key #	Part Number	Description
1*	GW150-6-SA-002	Pre prepared engine assembly. (Includes: ignition switch wiring, low oil shut off wiring, muffler guard, heat shield, parker pump, pump mount, motor oil, battery cable.) **Does not include: throttle or choke cables**
2	GW150-7-SA-008	Gas tank with fitting and hose assembled
3	224011	Nylon Pipe to hose adapter
4	220360	Gas line hose clamp
5	220360	Gas line hose clamp
6	220319	Fuel hose, ¼" I.D. x 20" length
7	260110	Choke Cable
8	260100	Throttle Cable (**Does not include throttle lever**)

* Items not shown if full assembled state.

Grain-Weigh 200A Frame & Body (Rear View)



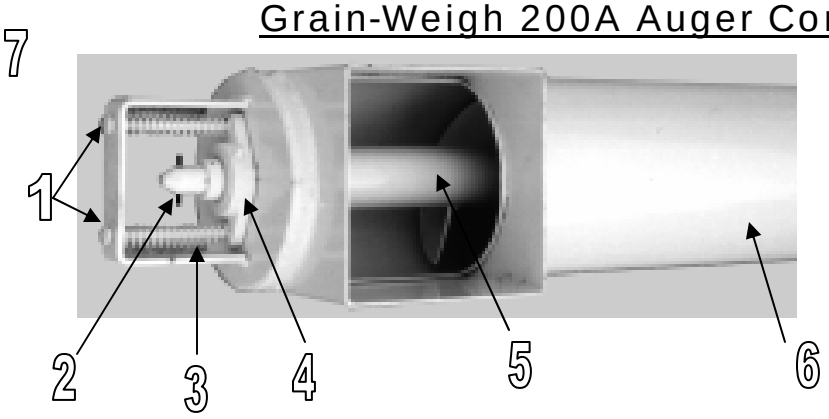
Key #	Part Number	Description
1	GW150KIT008	Tail light assembly kit (Includes: taillight, grommet, and pigtail plug)
2	660010	License plate light
3	250069	Decal, Par-Kan Company Logo
4	660011	License plate bracket
5	250029	Reflector, 3” round red
6	250250	Decal, Made in the U.S.A
7	GW150KIT006	Toolbox Kit (Includes: mounting hardware)
8	250100	Decal, Grain-Weigh
9	GW200A-2P107	Clean Out Door Rod
10	362058	Clean Out Door
11	362024	Black Poly Fender – Tandem Axle
12	GW200C-0W016	Fender Bracket Weldment
13	241083	Tire & Rim Assembly – GW200
14	241204	Mud Flap

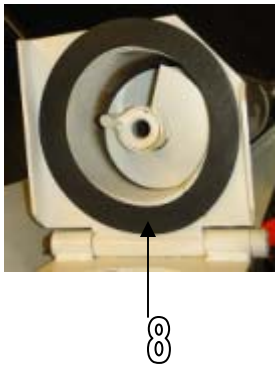
Grain-Weigh 200A Frame & Body (Front View)

Grain Weigh 200A Frame & Body (Front View) Continued

Key #	Part Number	Description
1	280057	Ball Coupler – 2-5/16”
2	GW200A-GW000	Ladder Weldment
3	270013	Cam Lock, (Grain-Weigh Box)
4	270282	Safety Chains
5	280100	Tongue Jack With Swivel Wheel
6	361559	Sight Glass Square
7	GW200A-1P601	Sample Door
8	361501	Roll Tarp Kit
9	201110	Rubber Bumper, 1” x 2-1/2” (Black)
10	362024	Fender - Poly
11	241083	Tire & Rim Assembly – GW200
12	GW200A-2P108	Auger Shield
13	362049	Light, Weigh Tronix Box
14	640195	Weigh Scale Head (Model 640 Weigh Tronix)
15	620101	Tachometer
16	640024	Switch, Toggle sp-st (On - Off)
17	640022	Switch, Toggle sp-st (Momentary)
18	640021	Switch, Toggle sp-st (On – Off - On)
19	610029	Weigh Head Power Cord
20	241009	Weigh Bar
21		Ignition Switch

Grain-Weigh 200A Auger Components

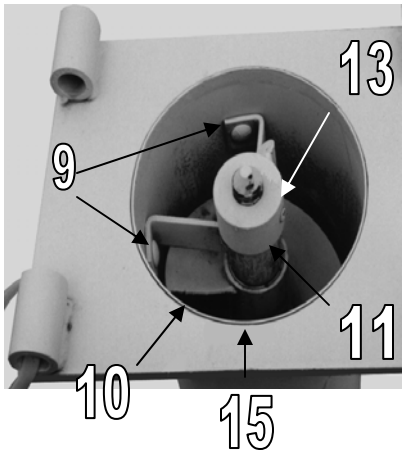




Top Auger

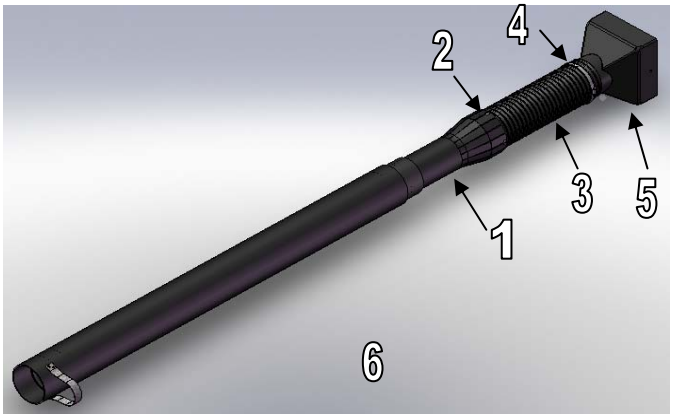
Key #	Part Number	Description
1	211079	Top Auger Spring Bolts – 3/8” x 6”
2	210100	Roll Pin – ¼” x 1-3/4”
3	270504	Top Auger Spring
4	280201	1” Flange Bearing
5	GW220-W-004	Top Auger Screw Weldment
6	GW220-W-015	Top Auger Tube Weldment
7	GW220-A-022	Top Auger Assembly (Includes: #1,2,3,4,5,6)
8	362012	Auger Gasket

Bottom Auger

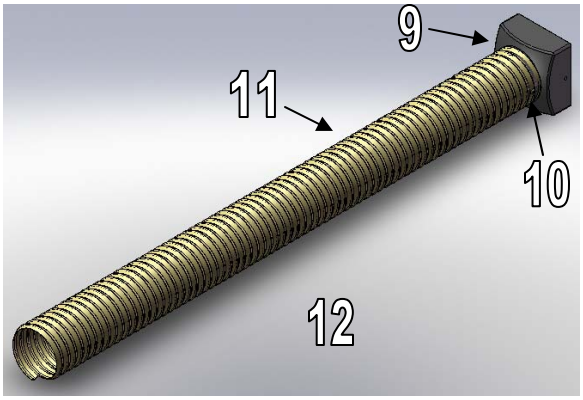


Key #	Part Number	Description
9	GW150-5-SW-005	Bottom Auger Carrier Bearing
10	GW220-W-005	Bottom Auger Screw Weldment
11	GW150-5-SW-006	Drive Collar Weldment
12	GW150-4-SP-004	Top Hinge Pin
13	210104	Spring Pin, 1/4” x 1-3/4”
14	210100	Roll Pin – ¼” x 1-3/4”
15	GW220-A-005	Complete Bottom Auger Assy

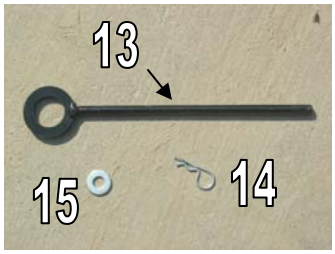
Grain-Weigh 200A Seed Tubes



Key #	Part Number	Description
1	362031	SEED TUBE, TELESCOPING 5” D 3 SEC.
2	210075	POP RIVET, 3/16” X .626” X .750” AL/ST
3	GW200C-9P700	SEED TUBE FLEX HOSE
4	220366	HOSE CLAMP, 6” S.S.
5	362027	SEED TUBE, ADAPTER **GW150/GW200A**
6	GW200A-9A042	Complete Seed Tube Assy.



Key #	Part Number	Description
9	362027	SEED TUBE, ADAPTER **GW150/GW200A**
10	210075	POP RIVET, 3/16” X .626” X .750” AL/ST
11	362093	SEED TUBE FLEX HOSE
12	GW200A-9A043	Complete Seed Tube Assy.

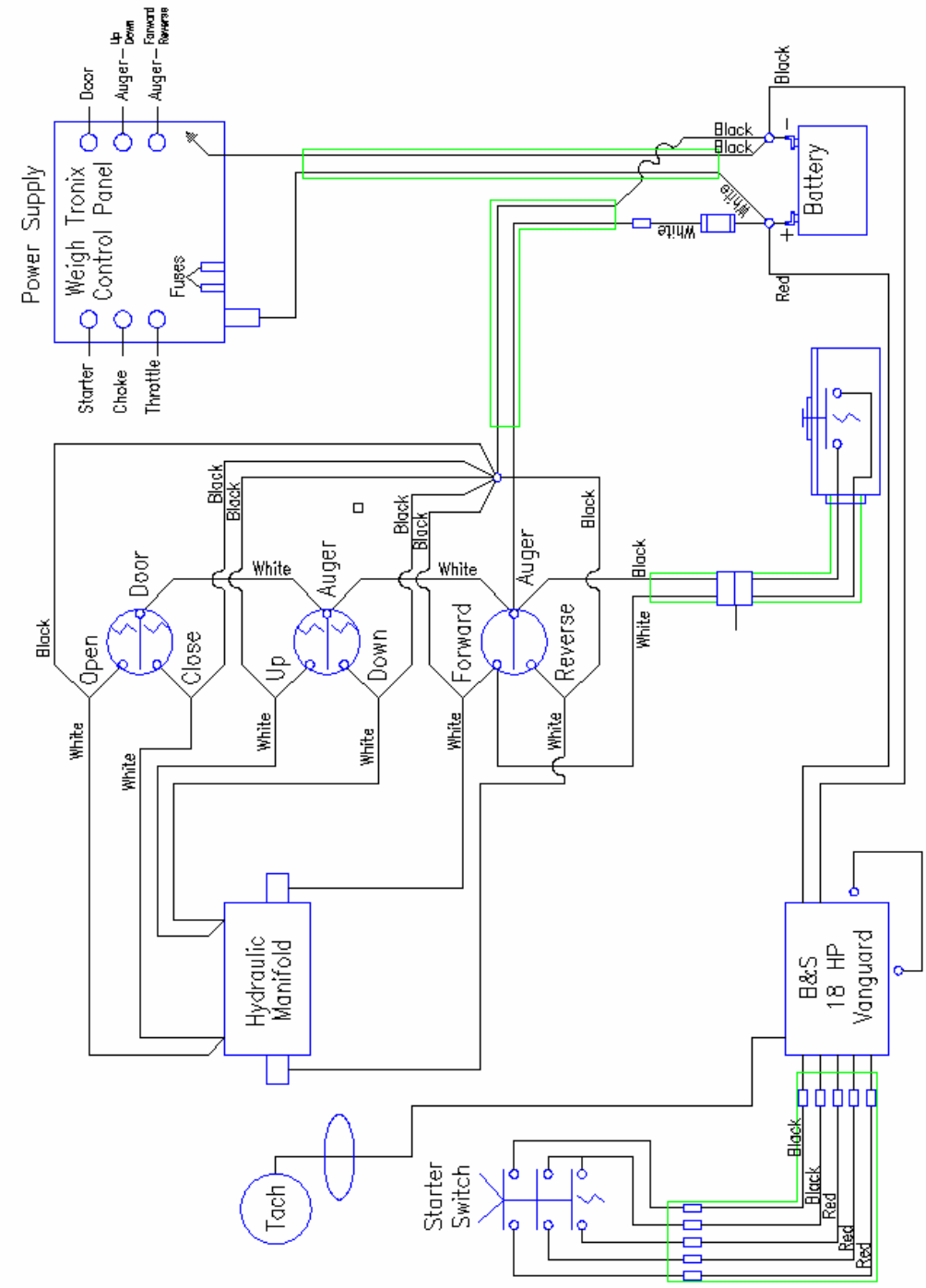


Key #	Part Number	Description
13	GW200C-9W700	Top Auger Boot Pin Weldment
14	210112	Hair Pin Clip
15	217201	Washer, 3/8” USS Flat Zinc

Grain-Weigh 200A Decals

Key #	Part Number	Description
1	250018	DECAL, WARNING-KEEP HANDS FEET ETC
2	250101C	DECAL, TOGGLE SWITCHES
3	250051	DECAL, TREATED SEED
4	250104	DECAL, WARNING USE 2-5/16" BALL E&S
5	250112	DECAL, "CAUTION" PINCH POINT
6	250105	DECAL, WARNING READ USER'S MANUAL(GW)
7	250101B	DECAL, SLOW SMALL
8	250101D	DECAL, OPEN LARGE
9	250101A	DECAL, FAST SMALL
10	250101E	DECAL, CLOSE LARGE
11	250057	DECAL,BE CAREFUL OVERHEAD WIRES W/O ARRO
12	250027	DECAL,"WATCH YOUR STEP"
13	250016	DECAL, BE CAREFUL OVERHEAD WIRES(ARROW)
14	INCLUDED W/ RT	DECAL, ROLL TARP INFORMATION
15	250063	DECAL, “CAUTION” MANUAL REPLACEMENT
16	250100	DECAL, GRAIN WEIGH (SMALL) RED/BL ON WHT
17	250000	DECAL, “PAR-KAN” 6-1/4” X 4-1/2”
18	250250	DECAL, “MADE IN THE USA”
19	250101F	DECAL, 3000 RPM MAXIMUM BLK LETTERING

Grain-Weigh 200A Electrical Schematic



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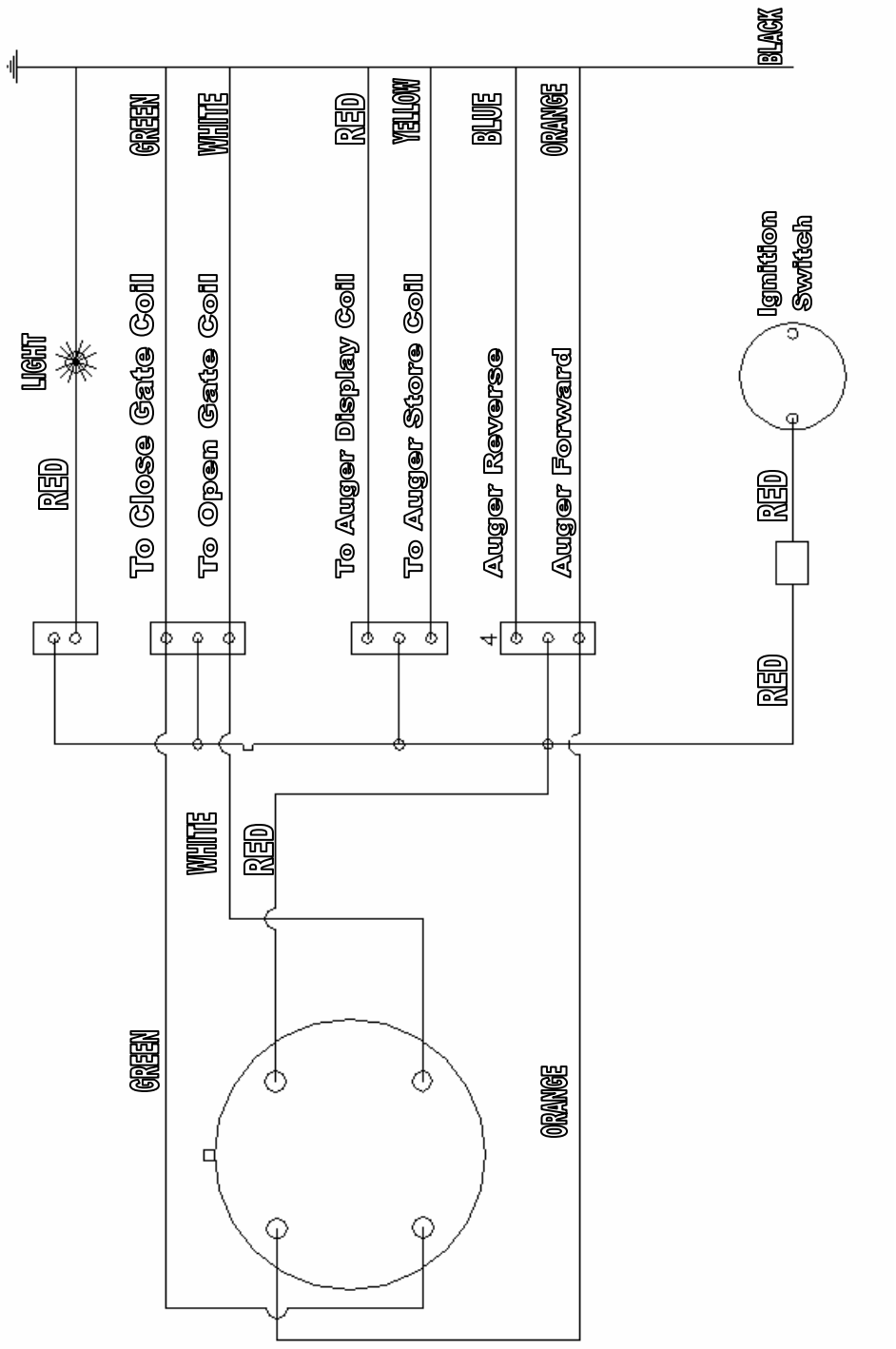
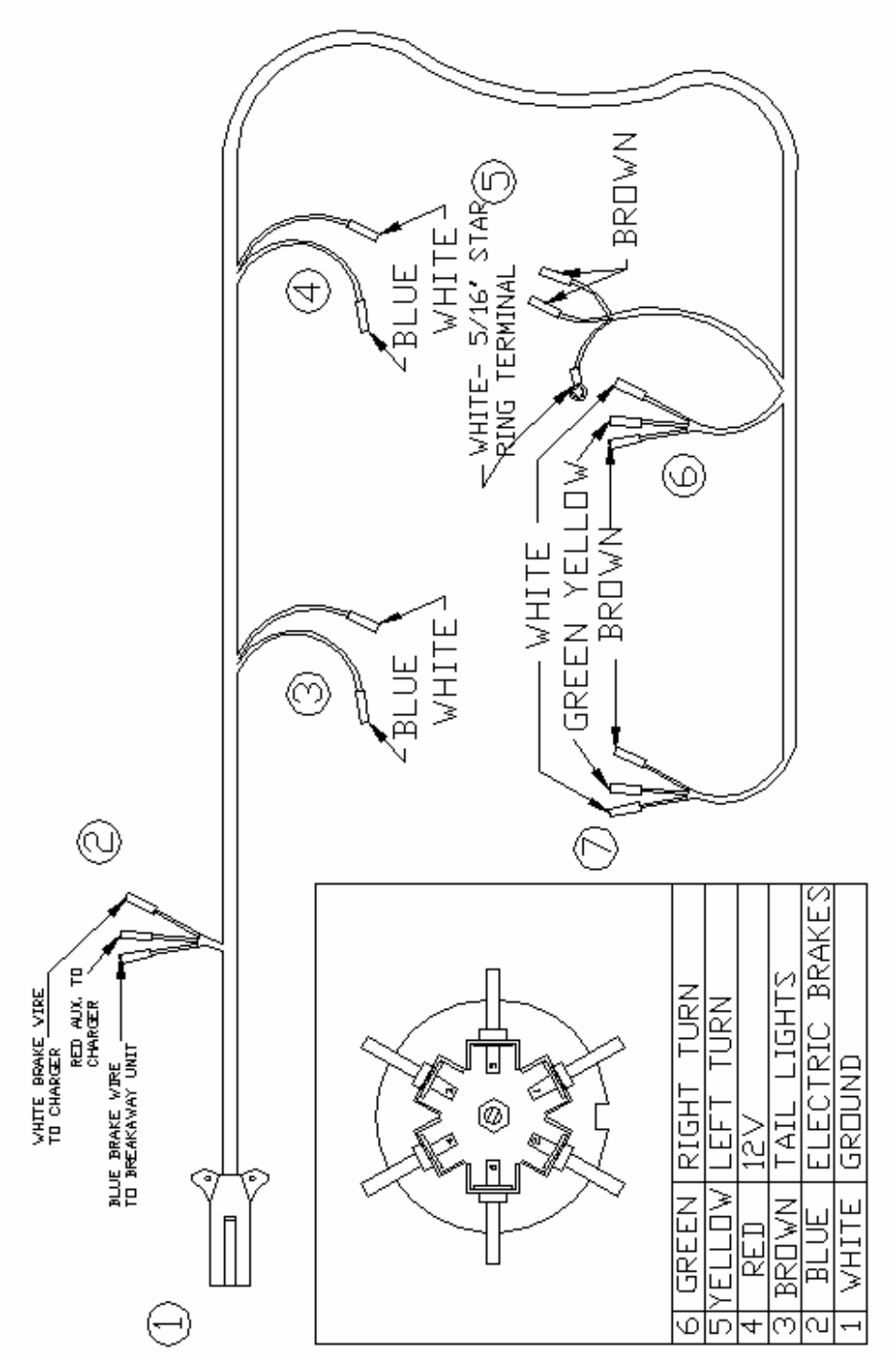


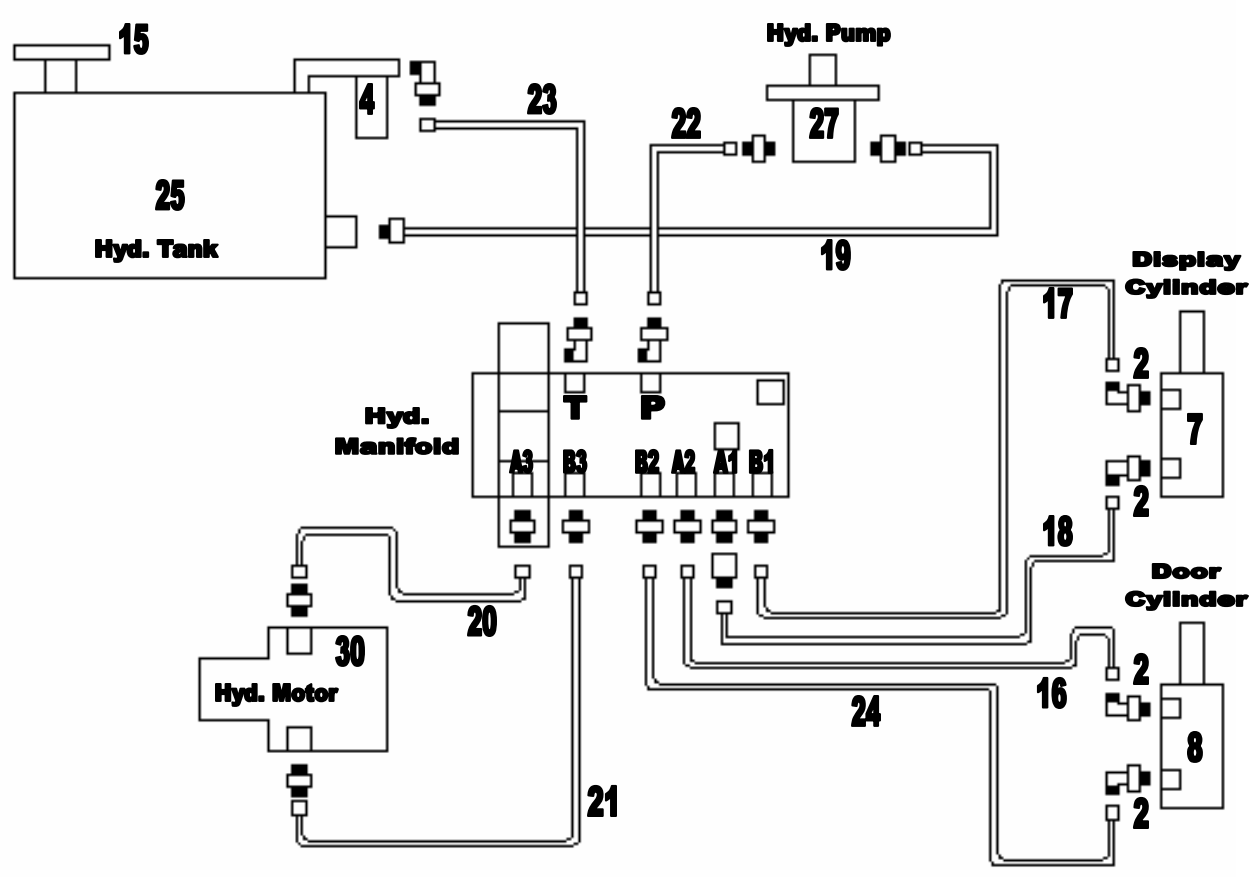
Grain-Weigh 200A Electrical Schematic



Grain-Weigh 200A Electrical Schematic

Grain Weigh 200A Hydraulic System

Grain Weigh 200A Hydraulic System



Grain Weigh 200A Hydraulic Parts Listing

Key #	Part Number	Description
1	420031	Hydraulic Adapter #6FORB x ¼" NPT
2	420015	Hydraulic Adapter Elbow, #6JIC x #6MPO 90
3	420022	Hydraulic Adapter, #12 ORB x #12JIC
4	440611	Hydraulic Oil Filter with Spin on Cartridge
5	440024	Hydraulic Adapter, #12ORB x #12JICM 90 Elbow
6	420024	Hydraulic Adapter, #12ORB x #12JICM
7	430066	3" x 14" 90 Ports Hydraulic Cylinder
8	430061	2" x 14" 90* Ports Hydraulic Cylinder
9	440000	1/4" Flow Control Valve
10	440003	Manifold Block Assembly with check valve
11	222408	Reducer Bushing, 3/8" x ½" Black Pipe
12	220579	Shaft Coupling (1")
13	220580	Shaft Coupling (5/8")
14	220581	Shaft Coupling – Spider
15	440617	Hydraulic Flow Ezy Breather
16	410111	Hose, Manifold to Gate Cylinder ¼" x 60"
17	410077	Hose, Manifold to Auger Cylinder Top ¼" x 103"
18	410076	Hose, Manifold to Auger Cylinder Bottom ¼" x 85"
19	410061	Hose, Tank to Pump 1" x 24"
20	410110	Hose, Manifold to Hydraulic Motor 5/8" x 38"
21	410110	Hose, Manifold to Hydraulic Motor 5/8" x 38"
22	410071	Hose, Hydraulic Pump to Manifold ¾" x 34"
23	410072	Hose, Filter to Manifold ¾" x 32"
24	410111	Hose, Manifold to Gate Cylinder ¼" x 60"
25	430005	Hydraulic Tank
26	430009	Pump Mount – GW Adapter
27	430010	Hydraulic Pump
28	420023	Hydraulic Adapter, Elbow, ¾" NPT Street
29	440615	Hydraulic Strainer
30	430018	Hydraulic Motor
31	420011	Hydraulic Adapter, #12 JIC X #10 ORB
32	420055	Hydraulic Adapter, 1 5/16" JIC X 1 1/16" ORB

Grain Weigh 200A Towing Safety Appendix

Towing the Grain Weigh Cart is designed to be safe if some basic precautions are taken. It is your responsibility to make sure these procedures are followed for the safety of yourself and others on the road. In addition, due to the variety of laws you should check local and/or state requirements.

Some common reasons for towing accidents include the following:

- Failure to properly connect the coupler and/or safety chains.
- Overloading trailer, towing vehicle, or safety devices.
- Towing with excessive speeds.
- Damaged or improperly maintained towing equipment.

Items to consider before towing the Grain Weigh 200A Cart:

-You should check the payload rating on your towing vehicle(s), and equipment to ensure they can meet the requirements of pulling our trailer.

- Regular inspections should be made to safeguard against failure due to damaged towing and safety equipment. Some of these items include safety chains, hydraulic brake system, and turn signals/taillights.
If one or more of the links or fittings on the safety chain is stretched, broken, or deformed it should be replaced. Always replace entire chain assembly.

- Safety chains shall be connected to the towing vehicle and trailer so that the slack for each length of chain is approximately the same when the vehicles are aligned on a common front to rear centerline. There shall be no more slack than necessary to permit proper turning of the vehicles. The safety chains shall be crossed under the trailer tongue and connected to the hitch assembly or to other towing vehicle members.

Note: Crossing the chains under the tongue typically reduces the probability of stressing or breaking the chains when turning.

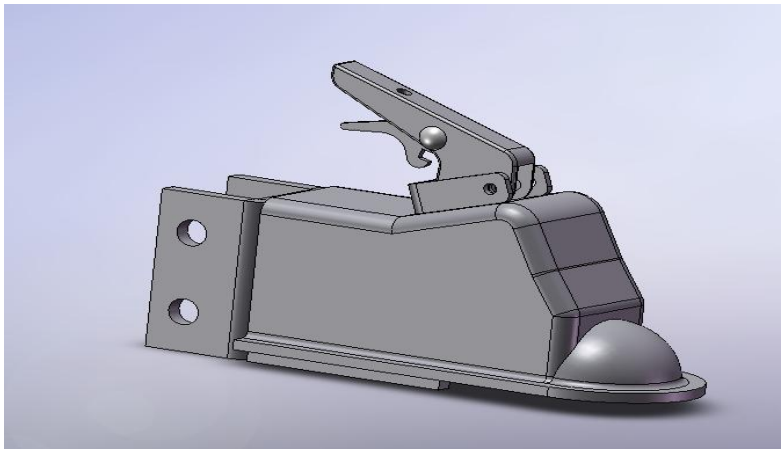
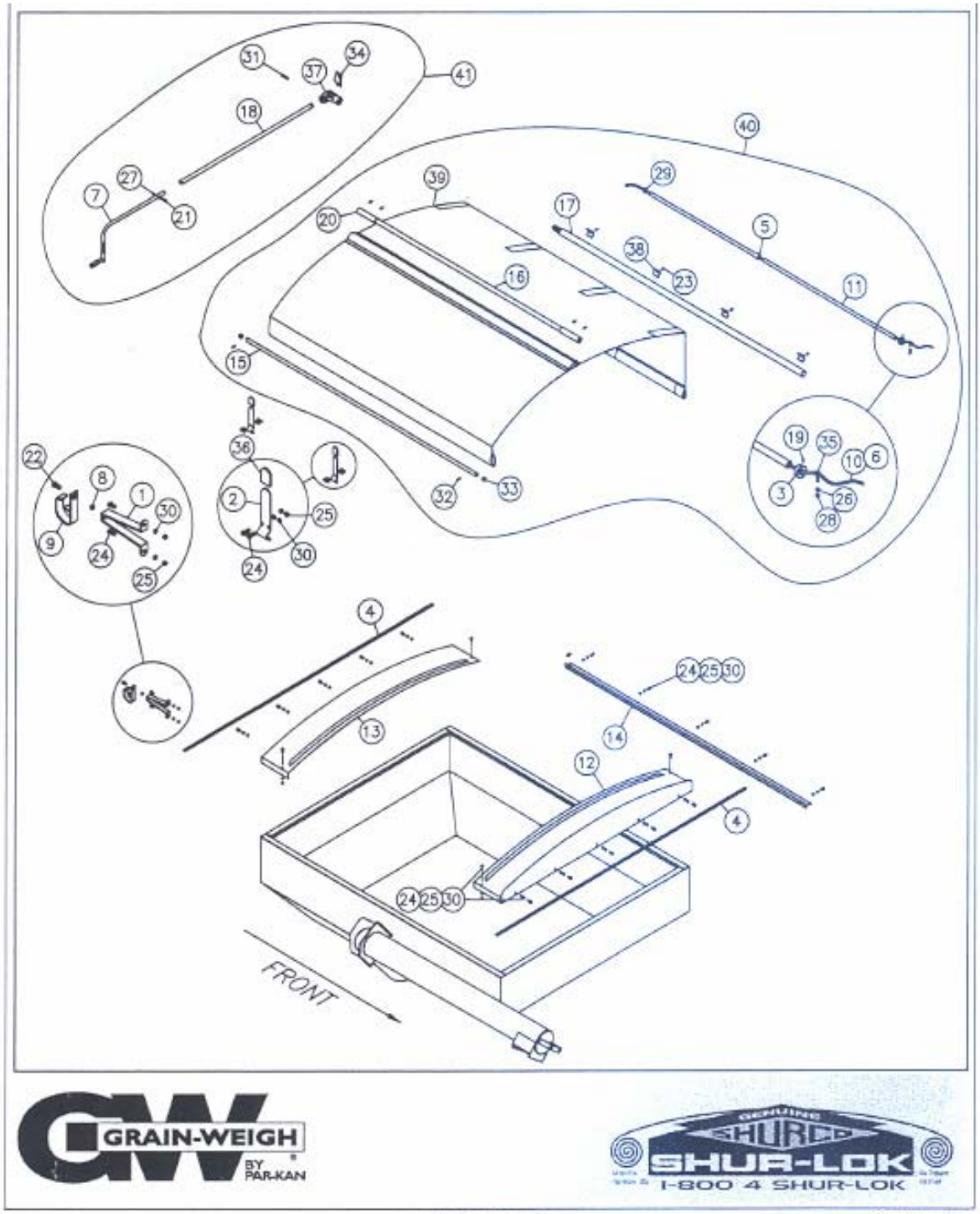


Figure 3 – Standard Ball Coupler 2 5/16”

Grain Weigh 200A Shurco Roll Tarp Replacement Parts



APPENDIX B 01/01/01

Grain Weigh 200A Shurco Roll Tarp Replacement Parts

Key #	Part Number	Description
1	361544	Crank Stand-Off 7”
2	361521	Tarp Stop
3	361529	Roll Return End plug – Nylon
4	361512	Trim Seal 110” long
5	361549	Roll Return Tube 46”
6	361546	Stretch Rope, 124” long
7	361542	Crank Arm Assembly
8	361548	Retainer Bushing
9	361541	Crank Retainer
10	361535	Rope Guard
11	361540	Roll Return Tube
12	361511	Font Bulkhead
13	361510	Rear Bulkhead
14	361539	Side Mount Latch
15	361538	Fixed Tube
16	361537	Ridge Pole
17	361536	Roll Tube with Spline
18	361530	Crank Extension
19	361534	Screw, 8-32: x 3.8” Self Tapping
20	361525	Protective Cap
21	361527	Cap Screw, 3/8” x 1-3/4”
22	361543	Cap Screw, ½” hex
23	361518	Screw, ¼” x ¾” Self Tapping
24	361547	Screw, 3/8” x 1” Self Tapping
25	361545	Hex Nut, 3-18”-16 Zinc
26	361533	Nut, 5/16” Hex
27	361550	Locknut, 3/8” – Centerlock
28	361532	Locknut, 5/16” – Nylon
29	361526	Flat Washer, 3/8”
30	361523	Lock Washer, 3/8”
31	361522	Spring Pin, 3/8” x 2’
32	361524	Nylon Truck Rivet
33	361516	Universal Round Insert, 1-1/8”
34	361520	Wire Lock Pin, 3/8” x 2-1/2”
35	361531	Eyebolt Anchor, 5/16” x 1”
36	361519	Protective Cap
37	361515	Splined U-Joint, 1-1/4” x 8”
38	361517	Plastic U-Clamp
39	361508	Tarp Only
40	361514	Tarp Cover Assembly with Poles & Tube
41	361509	Crank Assembly
42	361501	Entire Shurco Tarp Kit

Model 640 Weigh Tronix Calibration Procedure

Model: 640

1. Press the **On/Off** button and the greeting **"Hello"** should arrear on the screen and then the scale will return to zero. (Make sure the scale is empty and hooked up to the towing vehicle)

2. From the G/N mode, press and hold **the HOLD/MENU** key for three beeps (3 sec.) then release… **SET.PAS** is displayed

3. Press the **RM** button until the number **6** is displayed then press the **HOLD/MENU** button to move the cursor one position.

4. Press the **RM** button until the number **4** is displayed then press the **HOLD/MENU** button to move the cursor one position.

5. Press the **RM** button until the number **0** is displayed then press the **PRINT/SELECT** button once…**CONFIG** should be displayed.

6. Press the **HOLD/MENU** button until….**SPAN** is displayed

7. Press the **PRINT/SELECT** button and now the current weight should be displayed.

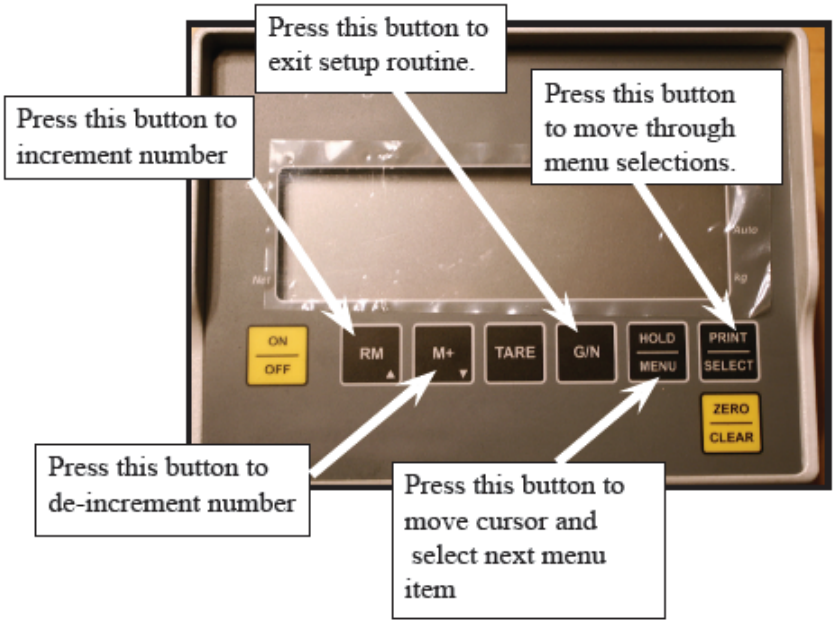
8. With either a calibrator or some known weight, put an appropriate weight onto the scale… and the current weight is displayed.

9. Press the **RM** key to increase the weight or the **M+** key to decrease the weight accordingly.

10. Once the appropriate weight value is shown, press the **PRINT/SELECT** button… **SPAN** should be displayed on the screen.

11. Press the **G/N** button until the indicator returns to the gross weighing mode. Calibration of the scale is then complete.

Setup Procedure for Weigh-Tronix 640M an 640 Indicator when used with external remote display.



Buttons used to setup scale for remote display.

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Model 640 Weigh Tronix Adding LED Light Procedure

640 SETUP....

The 640 style indicators needs to have the parameters set correctly to operate a remote display. The following pages will instruct you step by step on how to accomplish this.

Place the scale in "SETUP MODE" so the parameters can be set.

A. Press and hold the Hold Menu button for 3 seconds and then release after the 3rd beep from the internal horn. "SET.PAS" will be displayed (SET Parameters).

Note- If no button is pressed for 10 seconds the indicator will exit the setup mode.

B.Press the up arrow key button 7 times or until the number 6 is displayed in the first position on left.. If you increment past 6, you can keep pressing the up arrow key until 6 is shown again.

C.Once the 6 is displayed, press the "Menu" key to increment the cursor to the next number on the right.
D. Press the up arrow key until a "4" is displayed.
E. Press the "MENU" key to increment to the next digit on right.
F. Press the "UP ARROW" key until a zero is displayed on the screen.
G.Press the Print/Select Key twice and this will place you in the Configuration Mode.

Model 640 Weigh Tronix Adding LED Light Procedure

The section that needs to be configured is labeled RS232.
A. To get to that section of the setup, continue pressing and releasing the "MENU" button until "RS232" is displayed on the screen.
(The "MENU button" will need to be pressed and released eleven times)

B. Press the "Select Key" to enter the RS232 setup mode.

C. Continue pressing the Menu key until the word "LAYOUT" appears on the screen.

D. Press the Select Key while the word "LAYOUT" is shown on the screen.

E. Press the "MENU key" until the word "REMOTE" appears on the screen.

F. Press the "Select key" and the word "LAYOUT" will appear on the screen.

G. Press the "G/N key" several times (normally 3 times) until the display reads "BUSY"

H. The indicator will now be in normal run mode and is ready to use.

The other parameters in the RS 232 section should be correct from the factory settings. In the event the other settings have been changed, use the setup procedure outlined in this instruction sheet to set the other RS232 parameters to the following values.
Baud = 9600
Parity = NONE
Data = 8
Hand = NONE
Layout = REMOTE
Auto = OFF

Model 640 Weigh Tronix Adding LED Light Procedure

The remote display is powered from the 8 pin connector located next to the load cell connector of the 640M indicator.

When the display is powered off the remote display will blank and enter into a "sleep mode" until the indicator is powered up.

When the remote is first powered up, it will display 123456 and then blank the display until a signal is received from the scale indicator.

If no signal or the wrong signal (incorrect parameter settings) are received, the display will remain blank.

Par-Kan Company
2915 West 900 South
Silver Lake, IN 46982

Phone: 1-800-291-5487
Phone: 260-352-2141
Fax: 260-352-0701

Contact: Sales Department
E-mail: GWSales@par-kan.com
Website: www.par-kan.com